



pAB-Back:

5' ACC AGA AGC TTA TGA ATA TGC AAA TC 3' (SEQ ID NO:3)

Linker-Anti:

5' GCC ACC CGA CCC ACC ACC GCC CGA TCC ACC GCC TCC TGA
GGA GAC GGT GAC CGT GGT C (SEQ ID NO:4)
3'

Linker-Sense:

5' GGT GGA TCG GGC GGT GGT GGG TCG GGT GGC GGC GGA TCT
GAC ATC CAG CTG ACC CAG AGC (SEQ ID NO:5)
3'

V_{L(Mut)} - For:

5' TGC AGG ATC CAA CTG AGG AAG CAA AGT TTA AAT TCT ACT
CAC CTT TGA TC (SEQ ID NO:6)
3'

FIG. 2

FIG. 3

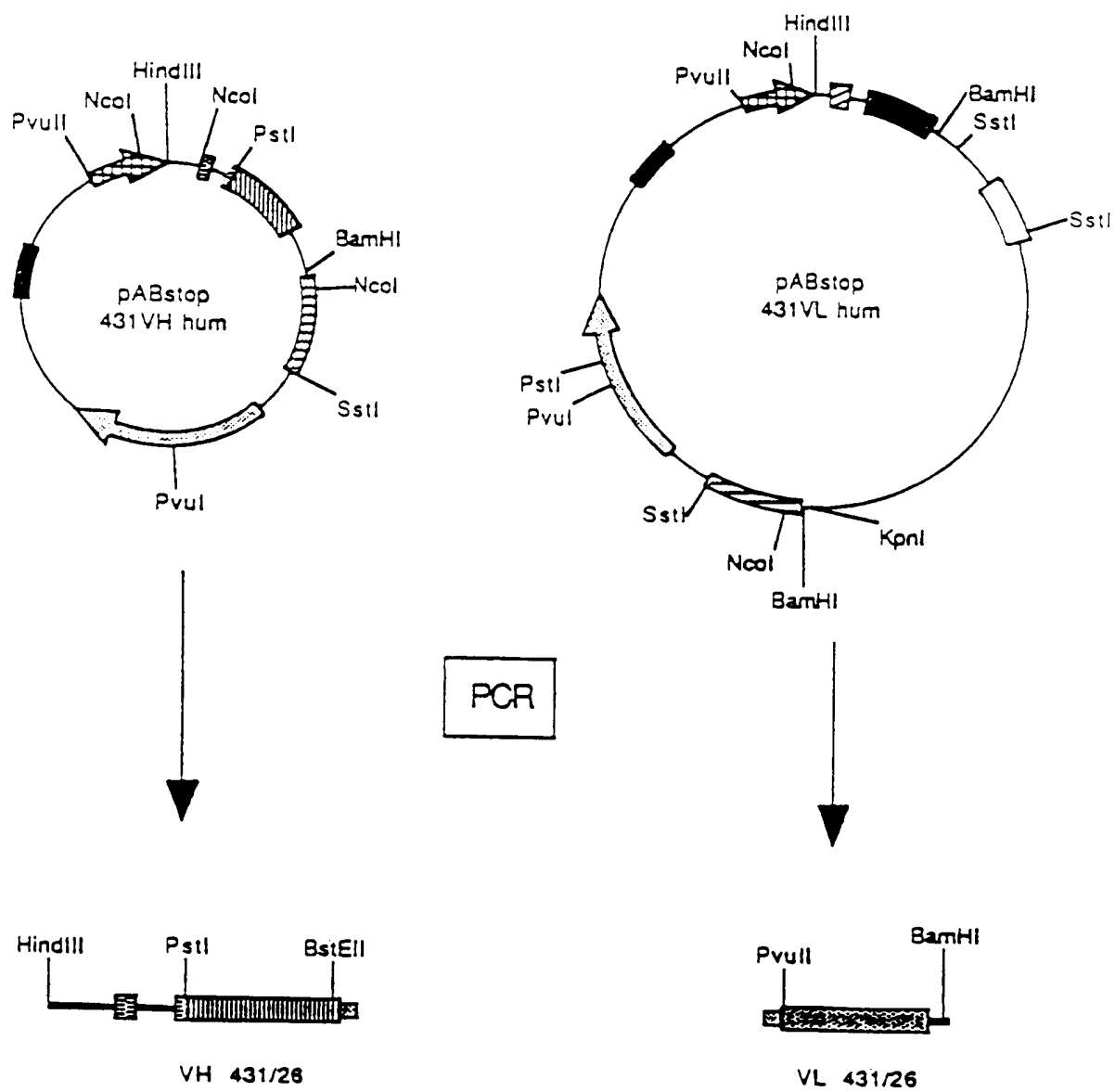


FIG. 4

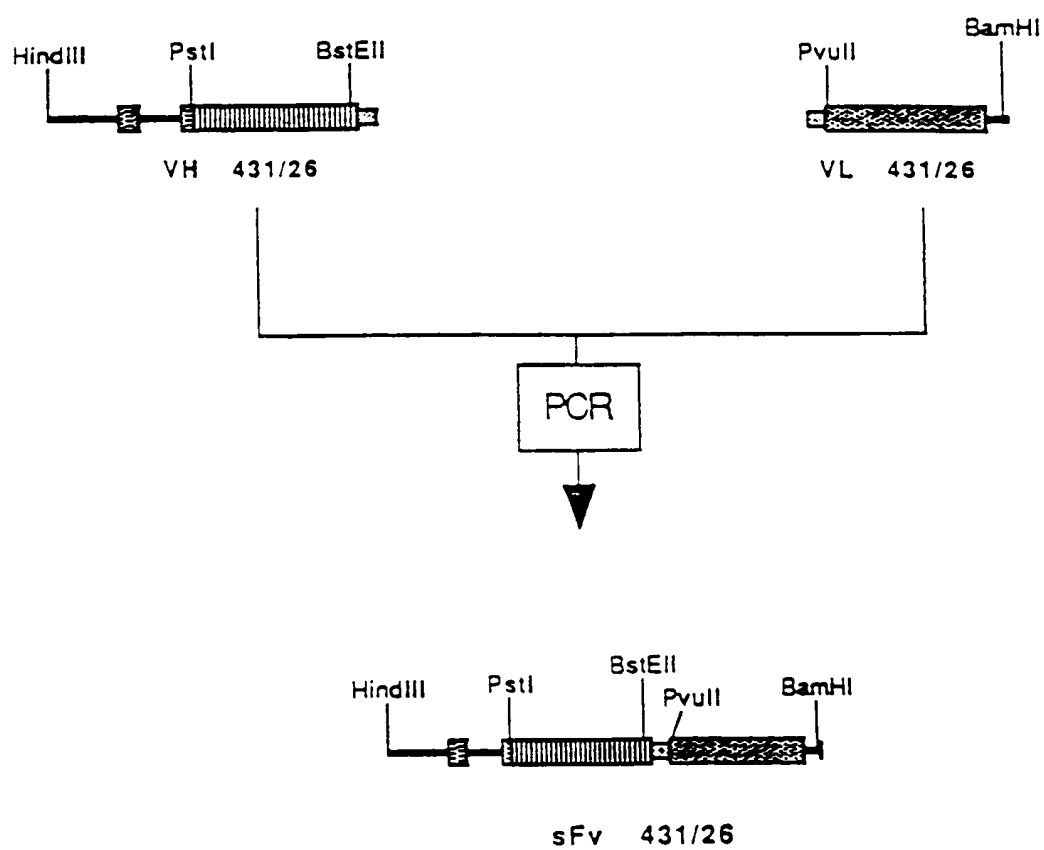


FIG. 5

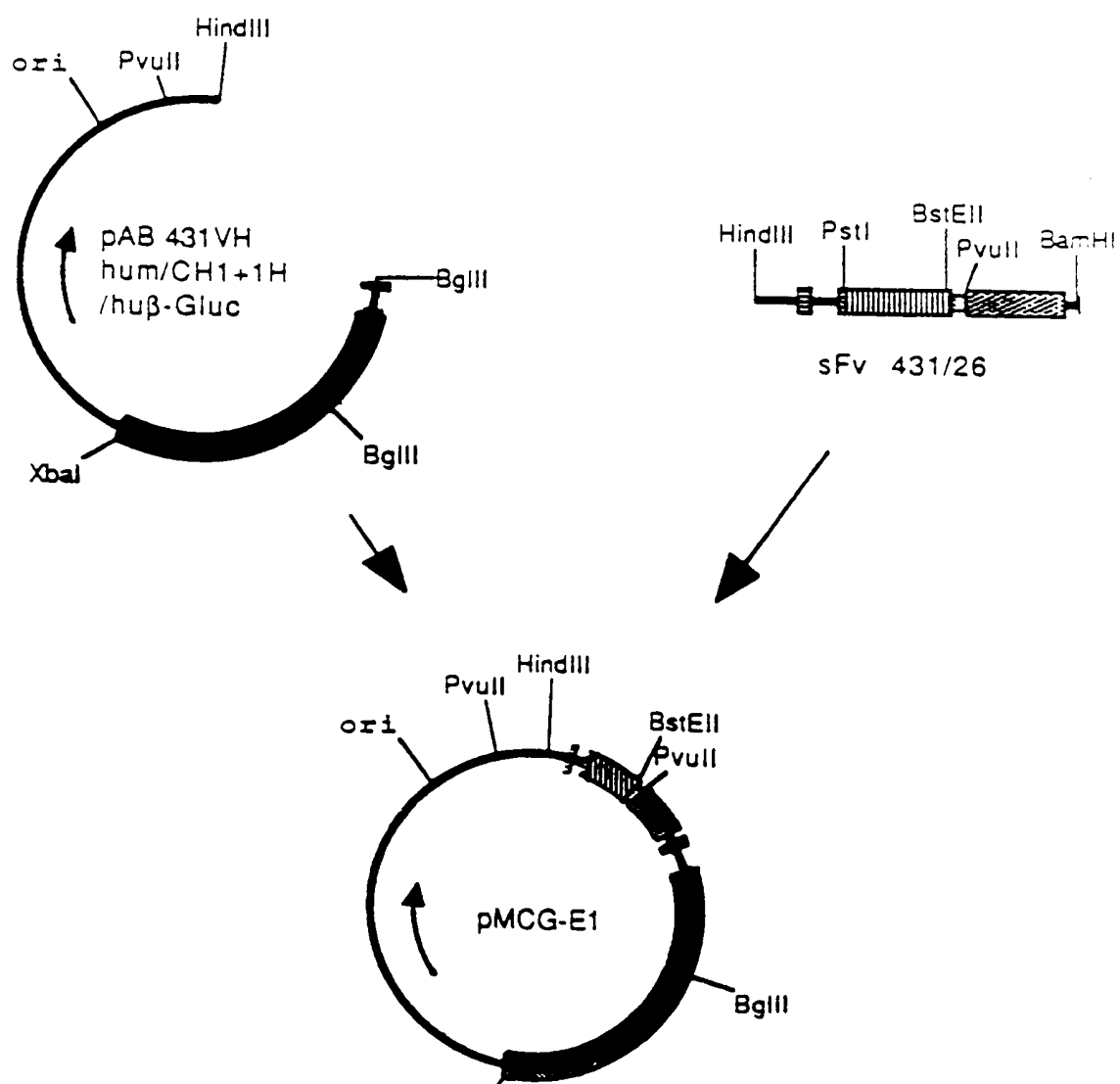


FIG. 6

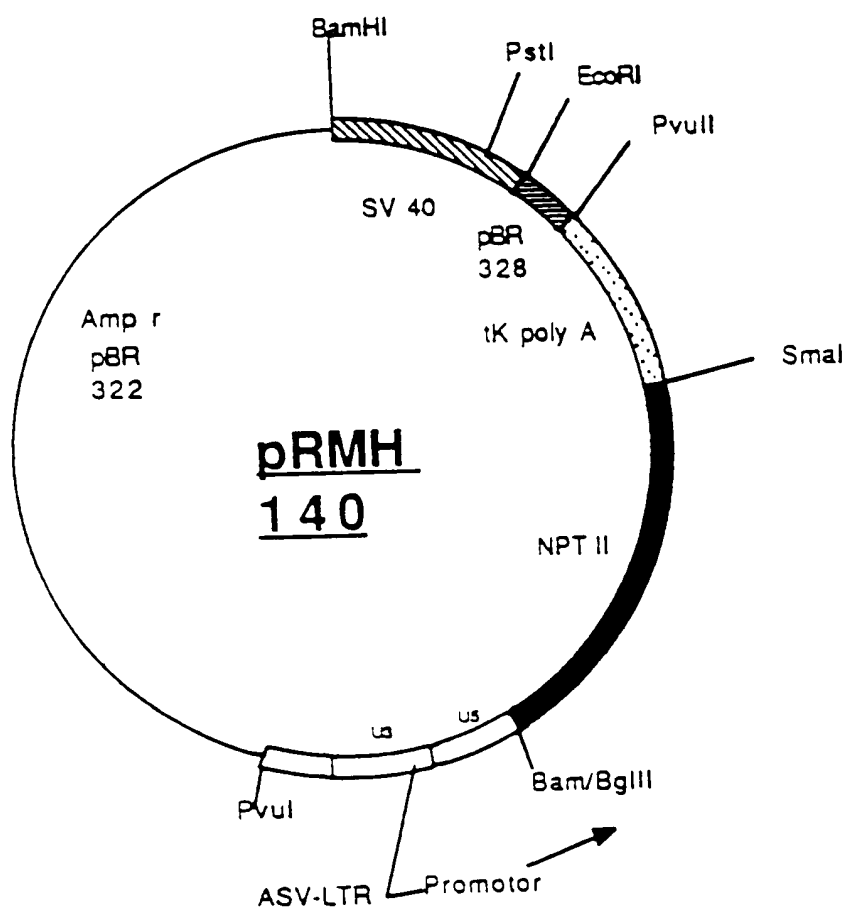
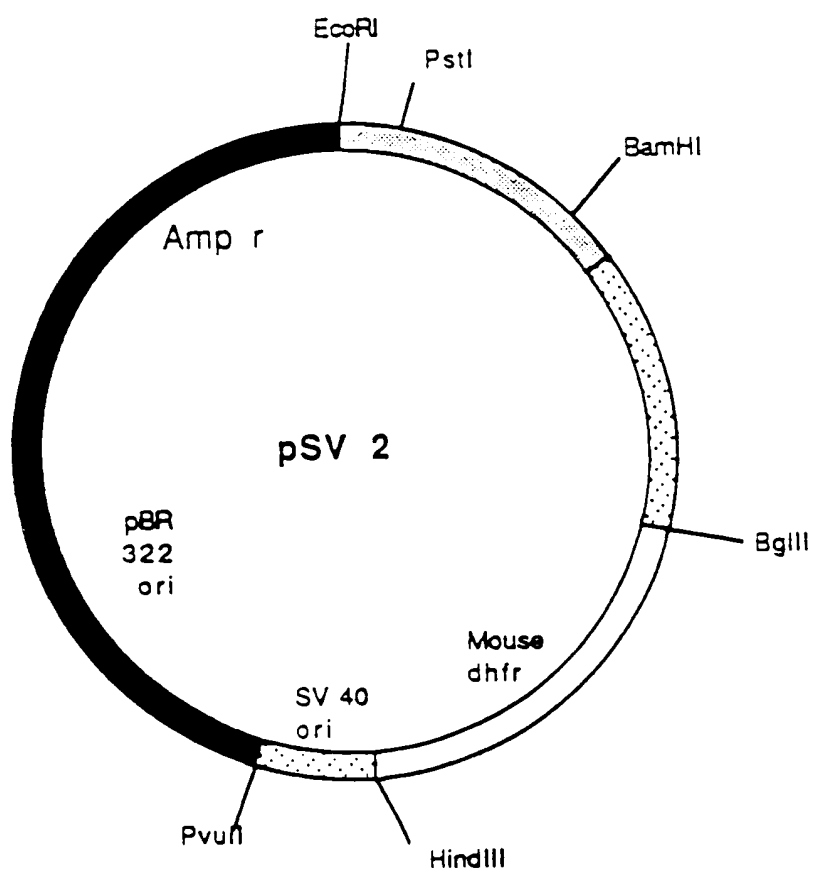


FIG. 7



Oligos for sFv 431/26 cloning in pUC19

sFv for (2561)

5' TTT TTA AGC TTA GAT CTC CAC CTT GGT C 3' (SEQ ID NO:7)

sFv back (2577)

'5 AAA AAT CTA GAA TGC AGG TCC AAC TGC AGG
AGA G 3' (SEQ ID NO:8)

Oligos for hum.β-Gluc cloning in sFv pUC19

Hum.β-Gluc. back oligo (2562)

5' AAA AAA GTG ATC AAA GCG TCT GGC GGG CCA CAG
GGC GGG ATC CTG TAC 3' (SEQ ID NO:9)

Hum.β-Gluc. for oligo (2540)

5' TTT TAA GCT TCA AGT AAA CGG GCT GTT 3' (SEQ ID NO:10)

Oligos for sFv/hum-β-Gluc cloning in pIXY120

PCR oligo VHpIXY back (2587)

5' TTT TGG TAC CTT TGG ATA AAA GAC AGG TCC AAC TGC AGG
AGA G 3' (SEQ: ID NO:11)

PCR oligo VKpIXY for (2627)

5' A AAA CCA TGG GAA TTC AAG CTT CGA GCT GGT ACT ACA
GGT 3' (SEQ ID NO:12)

Oligos for *E.coli* β -Gluc cloning in sFv pUC19

E. coli β -Gluc. for (2639)

5' TTT TAA GCT TCC ATG GCG GCC GCT CAT TGT TTG
 CCT CCC TGC TG 3' (SEQ ID NO:13)

E. coli β -Gluc. back (2638)

5' AAA AAG ATC TCC GCG TCT GGC GGG CCA CAG TTA
 CGT GTA GAA ACC CCA 3' (SEQ ID NO:14)

FIG. 13

Oligos for sFv/ β -lactamase cloning in pIXY120

PCR oligo VHpIXY back (2587)

5' TTT TGG TAC CTT TGG ATA AAA GAC AGG TCC AAC TGC AGG
AGA G 3' (SEQ ID NO:15)

PCR oligo VKpIXY/ β -lactamase for (2669)

5' AAA AAG CTT AGA TCT CCA GCT TGG TCC C 3' (SEQ ID NO:16)

PCR oligo link/ β -lactamase back (2673)

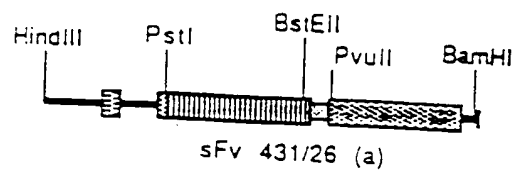
5' AAA GAA TTC TGA TCA AAT CCT CGA GCT CAG GTT CAC
AAA AGG TAG AGA AAA CAG T 3' linker (SEQ ID NO:17)

PCR oligo β -lactamase for (2674)

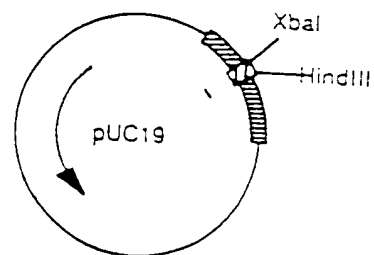
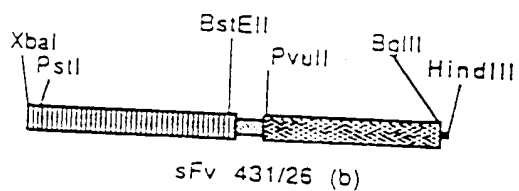
5' TTT AAG CTT ATT TTA ATA AAT CCA ATG T 3' (SEQ ID NO:18)

FIG. 16

Figure 2



PCR with oligos 2577 and 2561



HindIII/XbaI

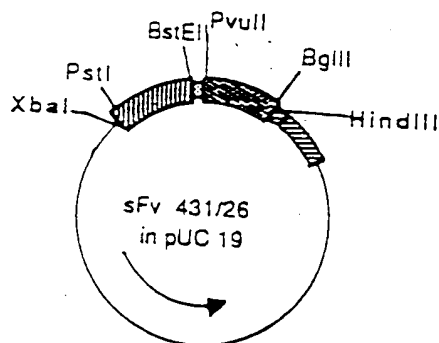


Figure 3

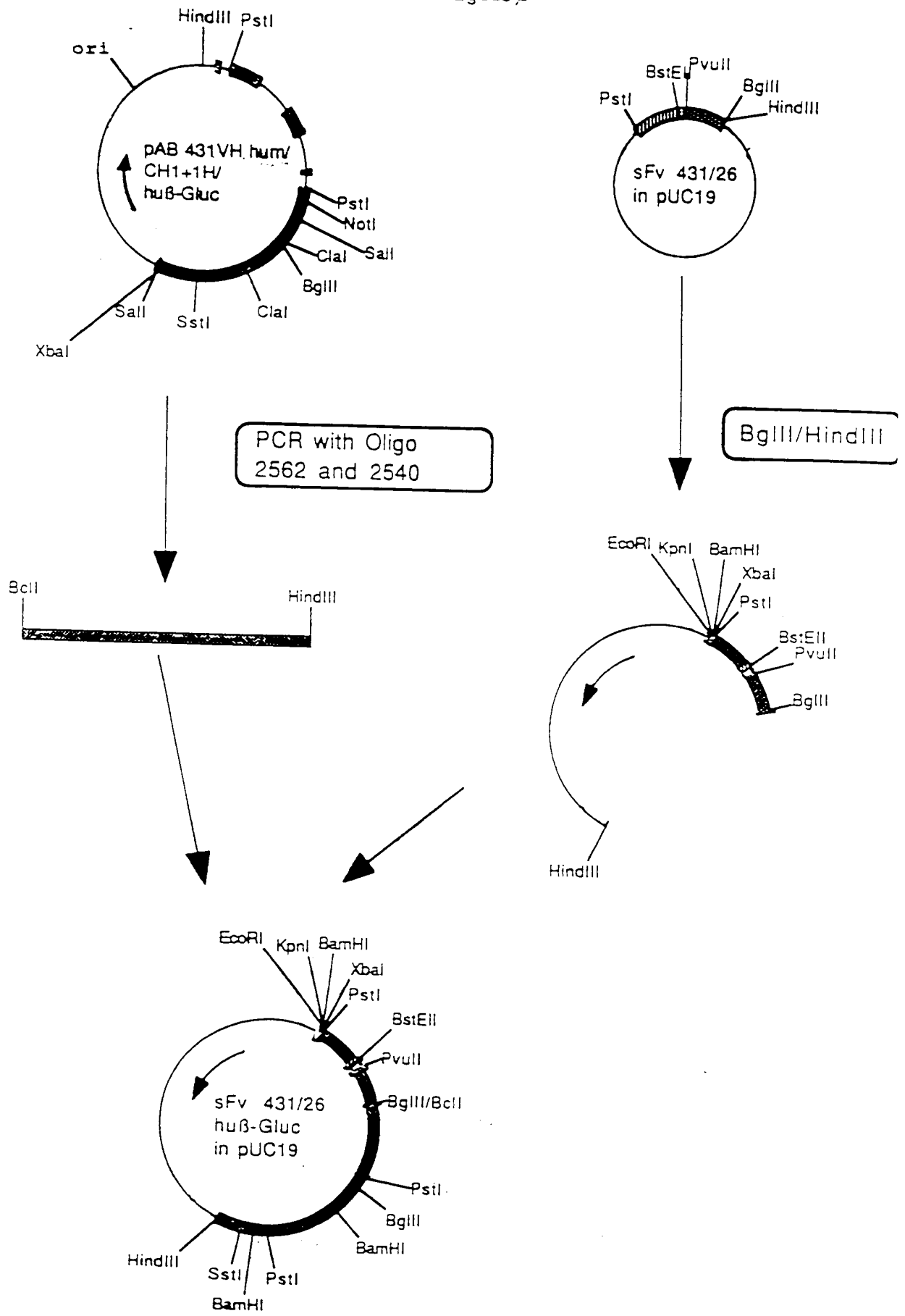


Figure 4

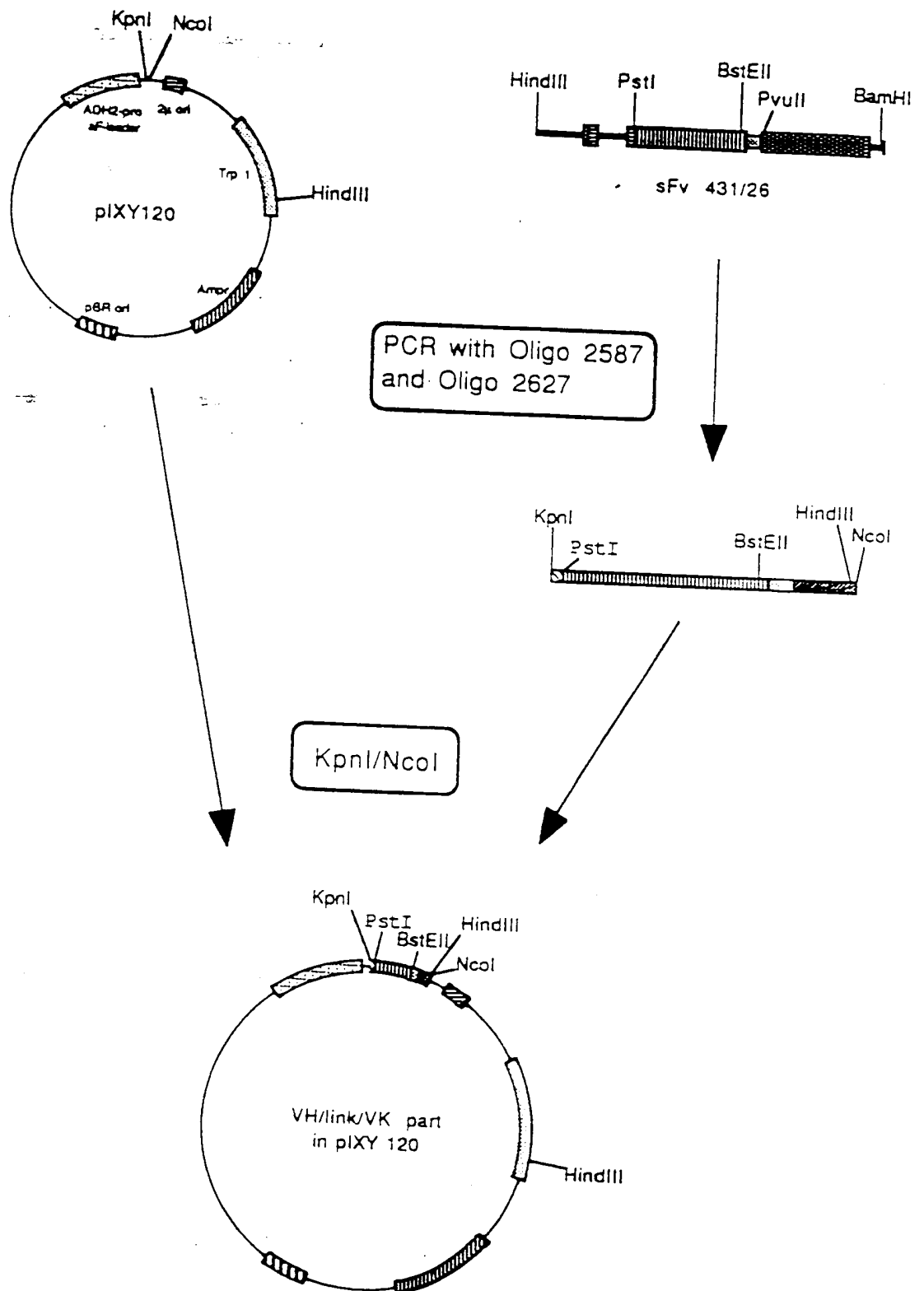


Figure 5

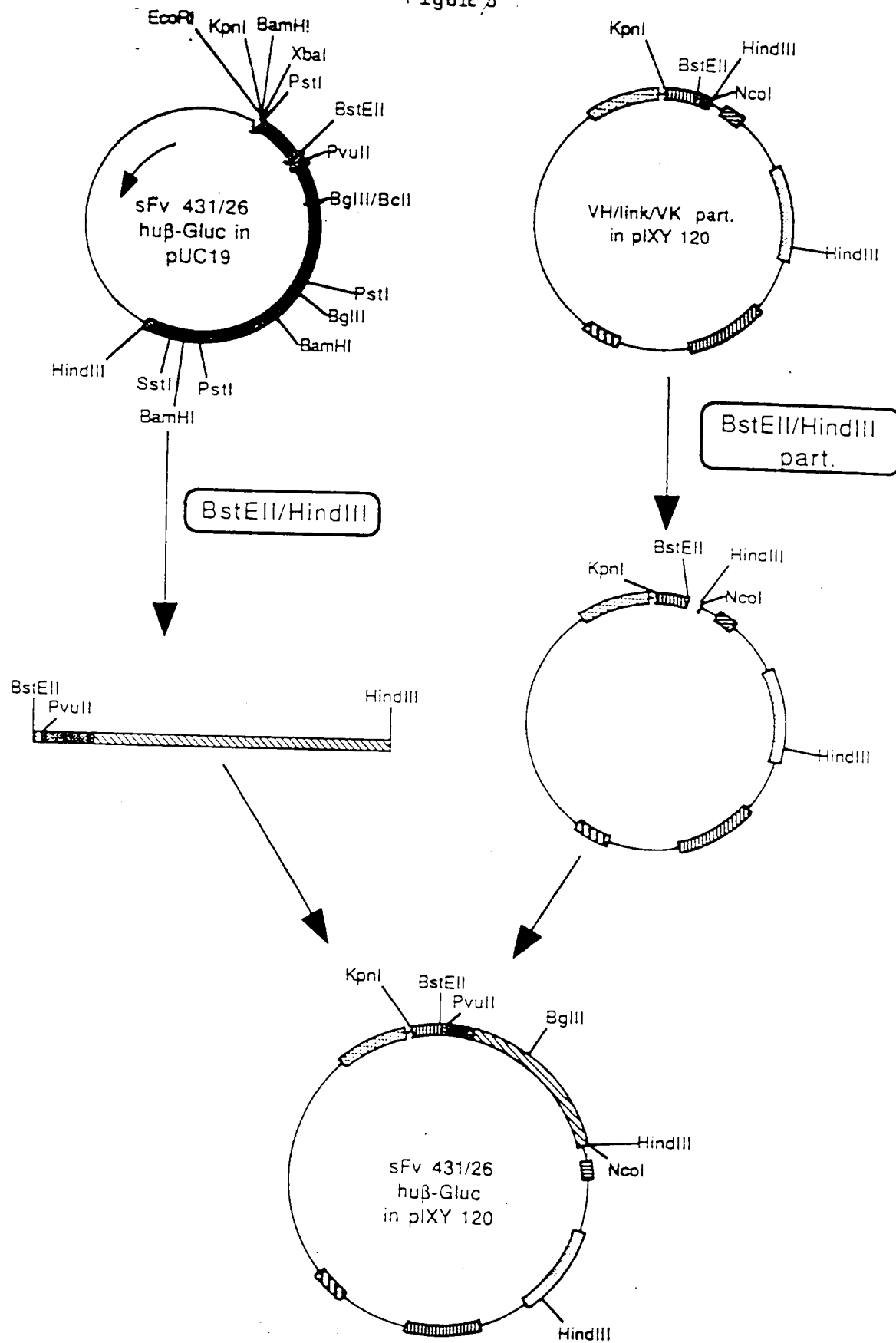
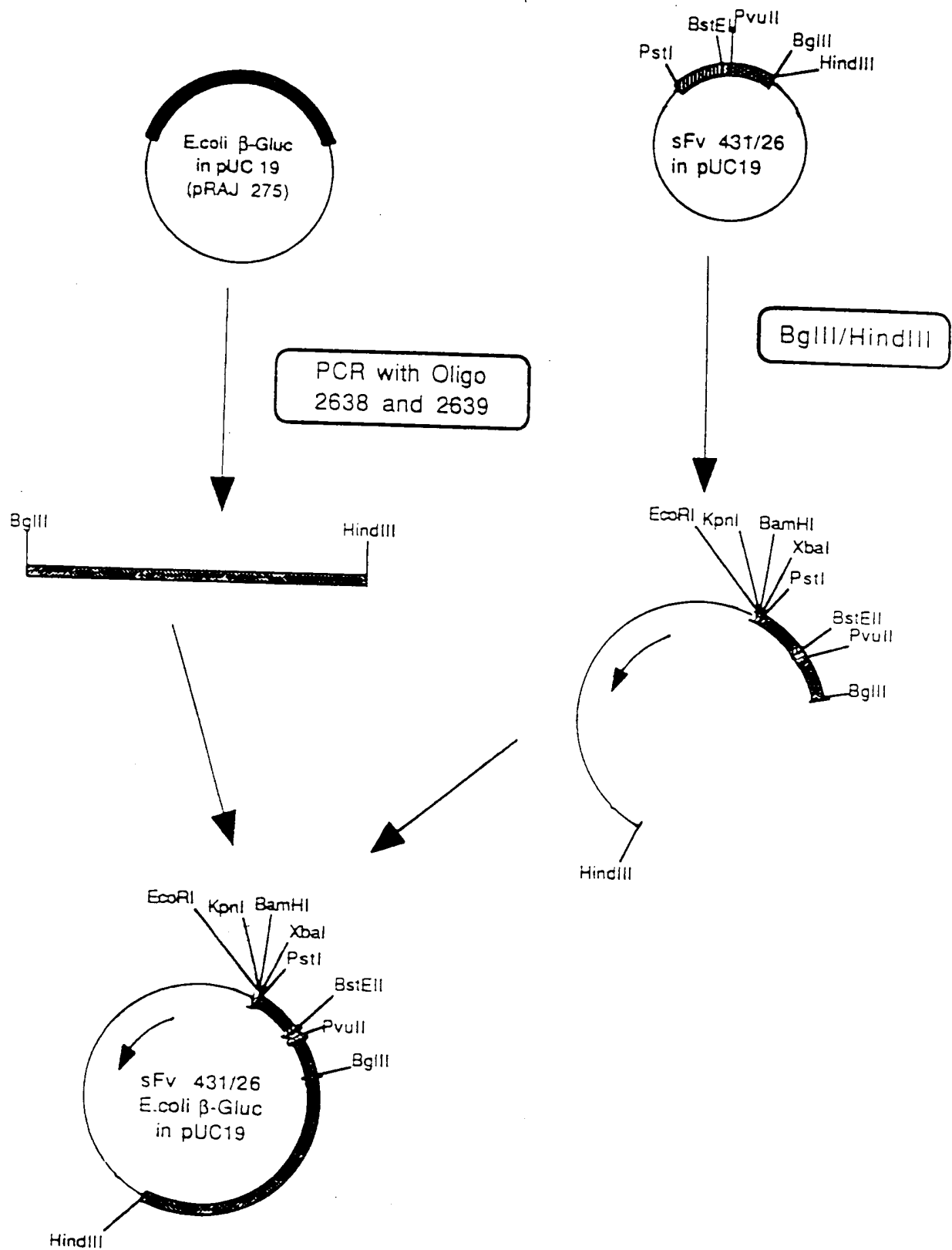


Figure 8



150
Figure 7

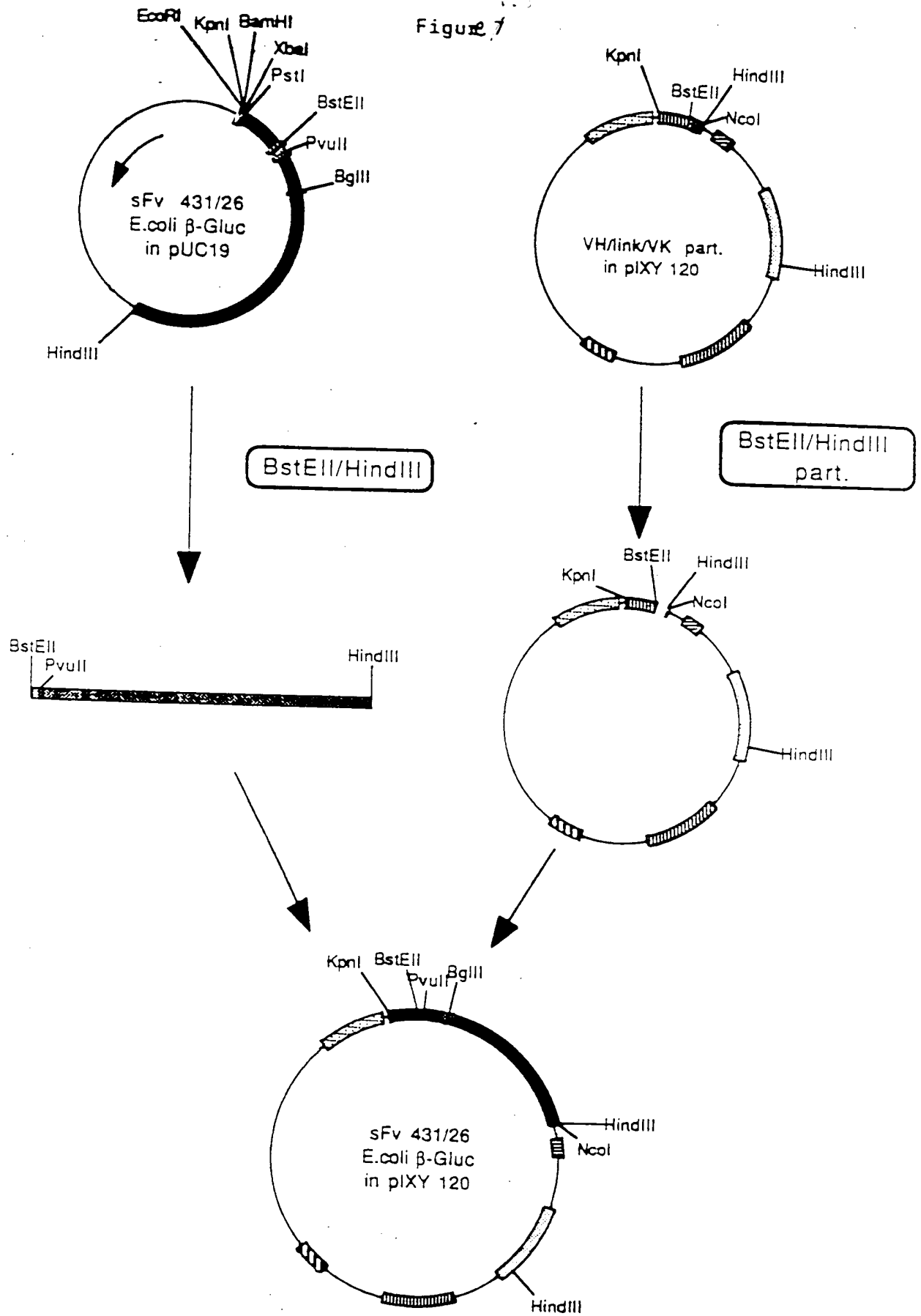


Figure 8

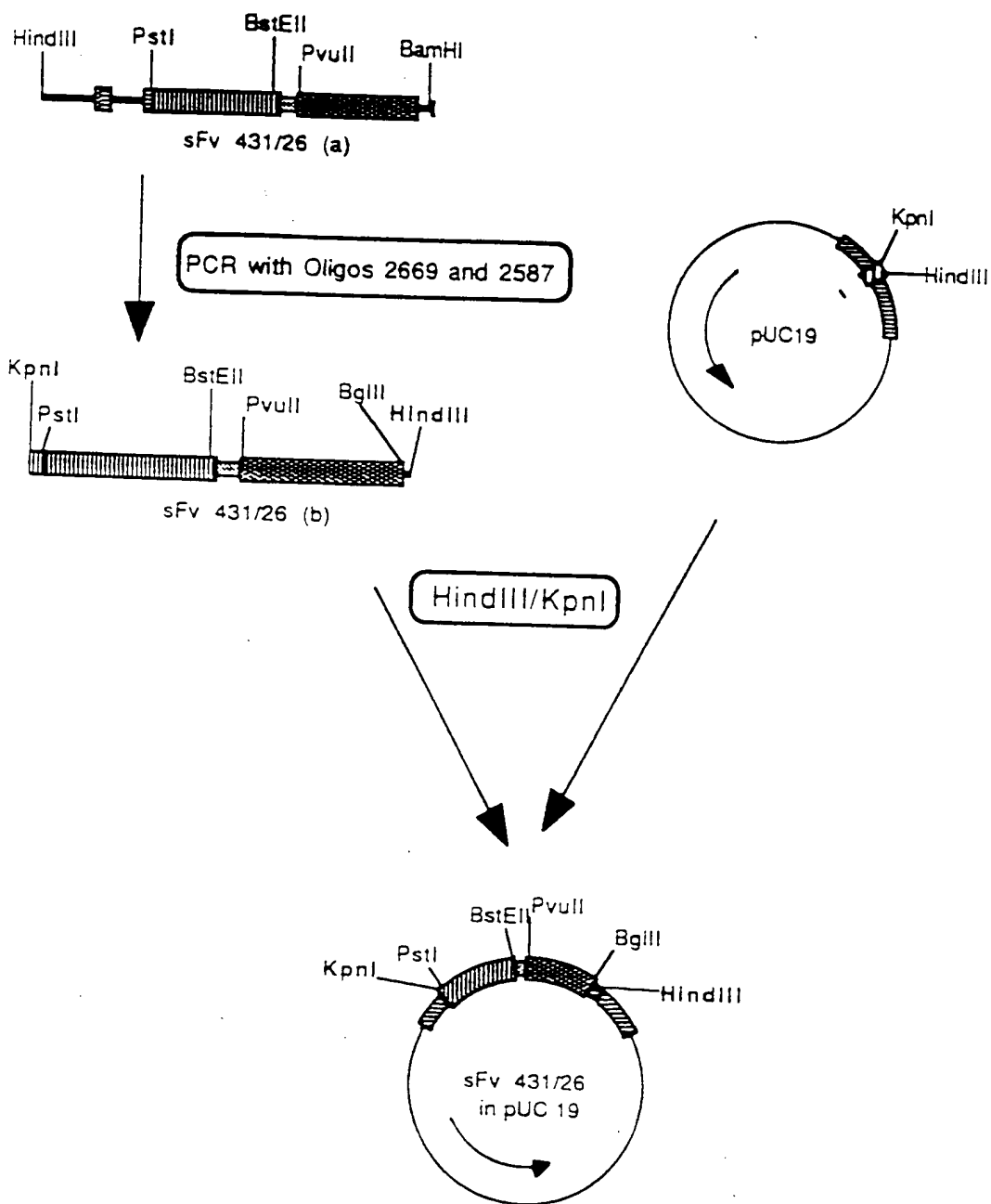


Figure 9

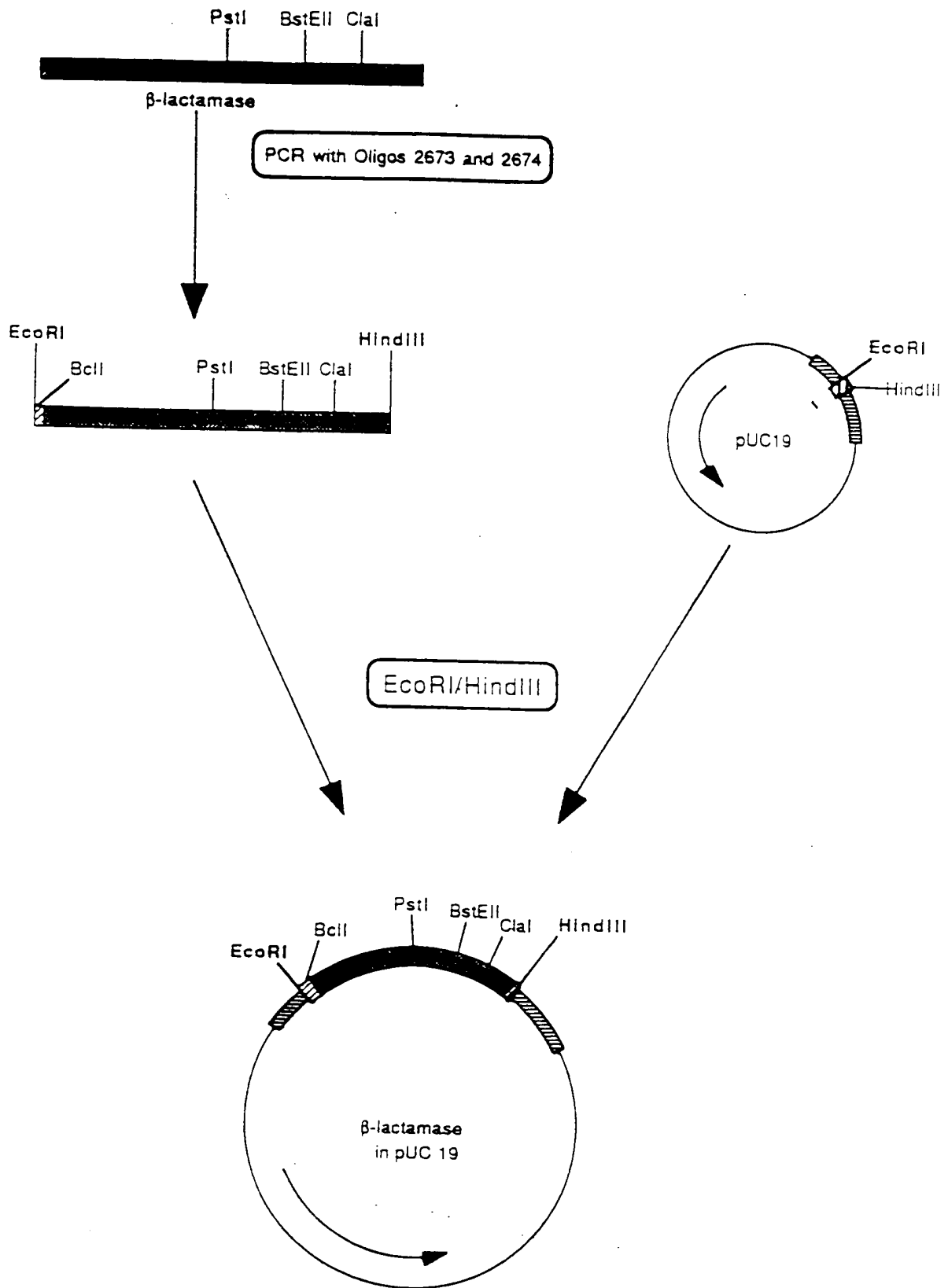


Figure 10

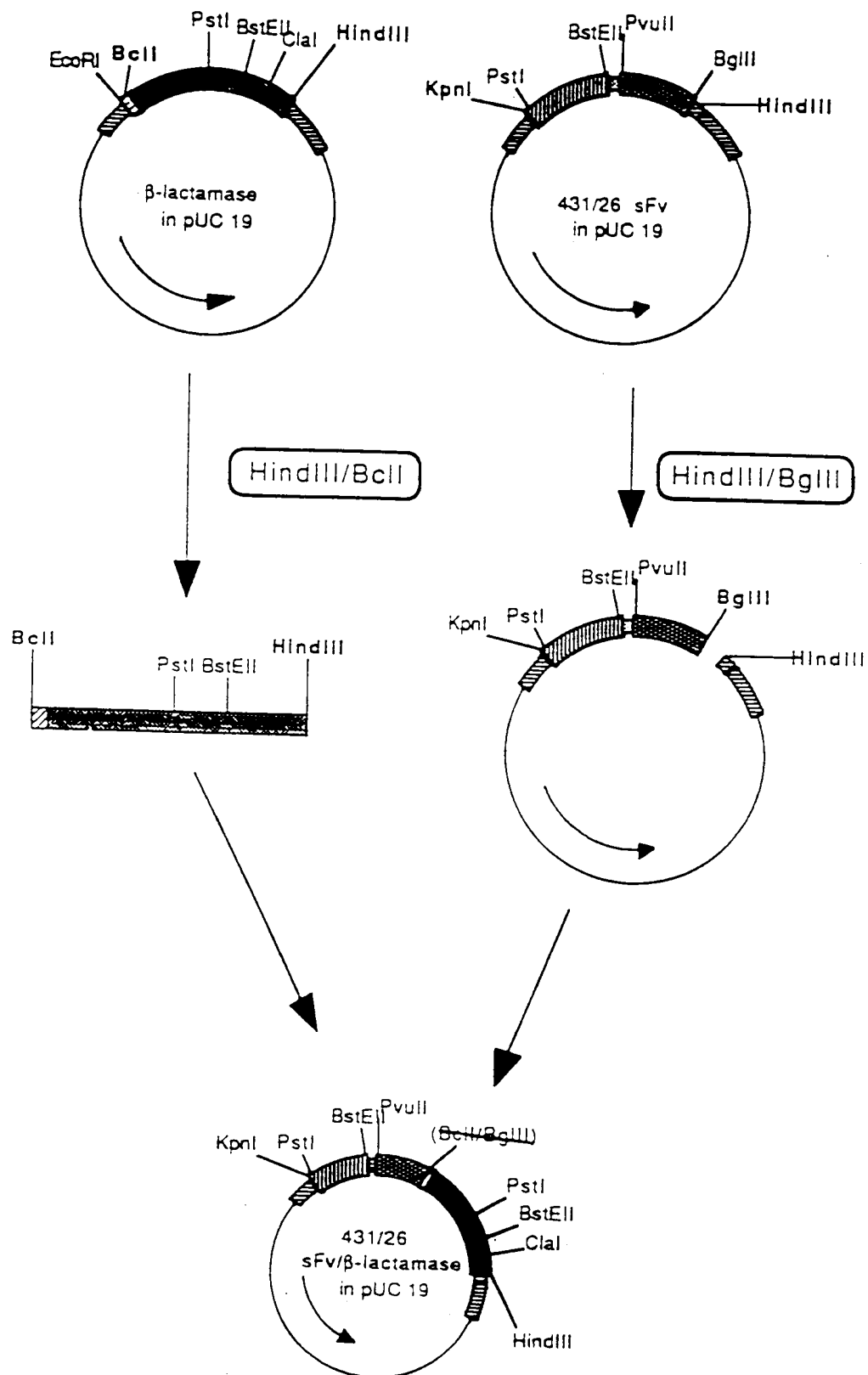


Figure 11

